

THE UNITED STATES OF ANTERIOR

TO ALL TO WHOM THESE: PRESENTS: SHALL COME:

Busch Agricultural Resources, Inc.

THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATION, OR STOCKING IT FOR ANY OF THE VIRTURE OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROBLEM THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BARLEY

'Merit 16'

In Vestimon Marrest, I have hereunto set my hand and caused the seal of the Hant Marrette Protection Office to be affixed at the City of Washington, D.C. this twenty-ninth day of June, in the year two thousand and seven.

Atlast.

2 m July

Commissioner Plant Variety Protection Office Agricultural Marketing Service Gotton Agriculture

Owner(s) is are) informed that false representation herein can jeopartize protection and result in penalties.

SIGNATURE OF OWNER

NAME (Please print) by the protection and result in penalties.

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SIG

(See reverse for instructions and information collection burden statement)

ORIGIN AND BREEDING HISTORY OF 2899-2316 Merit 16

PEDIGREE: Merit 2*/ 2B85-8129

MAH 6/13/07

Date of Cross: 1996

HISTORY:

The line 2B99-2316 was derived from the backcross (C96-4054) made in spring of 1996 in Ft. Collins, CO between Merit as female and the F_1 (C96-4011) used as male. The recurrent female parent (Merit) is a released BARI cultivar with a pedigree of Manley / 2B80-350. The male parent (C96-4011) is an F_1 hybrid with a pedigree of Merit / 2B95-8129. The parent 2B95-8129 is an experimental line from the BARI breeding program with the pedigree B1215 / Stein (TR479) // Manley. Stein is a line from the CDC of Saskatchewan that has Nairn in its extended pedigree. The extended pedigree of 2B99-2316 is shown below.

The BC_1F_1 generation was grown in the winter of 1996/97 in the greenhouse as a planted population of ~200 seeds. The BC_1F_2 generation was grown in Irricana, Alberta, Canada in 1997. Heads of selected plants were harvested and bulked based on the following criteria: Straw strength, Maturity, and general foliar disease resistance. The F_3 generation was grown in the Ft. Collins greenhouse by single seed descent (~196 planted seed) during the fall / winter of 1997/98. In the spring of 1998 there were 174 F_4 rows grown in Brooks, Alberta, Canada, of which twenty-seven (27) rows were selected on visual appearance, and NIR whole grain scores for protein, predicted extract, etc. The line was initially derived as a single F_5 observation row (NZ0787) in a counter-season increase in Christchurch, NZ during the winter of 1998/99. This row was assigned the mother-line designation 2B99-2316 and was first entered into yield trials in 1999 as an $F_{5:6}$ and subsequently tested at multiple locations in the U.S and Canada from 1999-2005.

From the first year of yield testing through the release of the variety, continual assessments of numerous agronomic and malting traits are carried out. These traits are assessed on samples grown at several locations per year and statistically compared to the most widely grown commercial varieties, plus selected advanced experimental lines. The varieties Harrington, B1202, and Merit were used throughout the testing program. 2B99-2316 was entered in the Western Spring Barley Nursery in 2003. 2B99-2316 was tested at the pilot scale level in 2004 and will be tested again in 2005 by the American Malting Association. It is targeted as a two-rowed malting barley for the Intermountain states of Idaho, Montana and Wyoming. The following criteria are assessed at each stage of yield trial testing:

Agronomic traits:

Malting traits:

Yield	Kernel plumpness
Straw strength (lodging)	Extract Level
Height	Total protein
Maturity	Soluble protein
Test weight	Alpha amylase
Resistance to scald	Diastatic power
Resistance to net blotch	S/T Ratio
Resistance to spot blotch	Turbidity

Our most important agronomic traits are yield, straw strength and disease resistance. Our most important malting traits are extract level, protein and enzyme levels (alpha amylase and diastatic power).

200600270

In 2001 head selections were made at Fort Collins, Colorado from a uniform and stable F_9 population to initiate purification and multiplication. 80 Headrows were grown in Ft Collins 2002. Sixty-seven of the 80 headrows were selected, uniform and true to type, and were bulked and grown in Ft Collins in 2003 as a 0.1 acre prebreeder seed increase. Seed produced from this increase was used to produce Breeder Seed in Ft Collins in 2004. 2B99-2316 has been uniform and stable from F_9 through F_{12} . Less than 0.05% of the plants were rogued from fields in 2001. Approximately 95% of the rogued plants were 2 to 4 centimeters taller than 2B99-2316. Less than 0.05% total variant plants may be encountered in subsequent generations. Certified seed will be available in 2008.

· Merit 16

MAN 103/01

EXHIBIT B

STATEMENT OF DISTINCTNESS

'Merit 16

MAH

2B99-2316 is most similar to the spring barley variety "Merit", however it can be distinguished by the following morphological characteristics:

-2B99-2316 has a bowl-shaped collar.

Merit has a saucer shaped collar.

- 2B99-2316 has no shoulder hairs on the rachis. Merit has shoulder hairs.
- 2B99-2316 has a flat and pyramidal shaped rachilla Merit has a cylinder shaped rachilla.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY Barley (Hordeum vulgare L.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
BUSCH AGRICULTURAL RESOURCES, INC.	2B99-2316	'Merit 16' MAH
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Co.	untry)	FOR OFFICIAL USE ONLY 6/13/67
3515 Ricards Lake Road Fort Collins, Colorado 80524 USA		200600270
PLEASE READ ALL INSTRUCTIONS CAREFULLY:		
Place the appropriate number that describes the varie when the number is either 99 or less or 9 or less.	tal character of this variety in the boxes below. Place a z	zero in the first box (i.e. 0 9 9 or 0 9)
1. GROWTH HABIT: 1 = Spring 2 = Facultative Winter 3 =	Winter Early Growth: 3 1 = Prostra	te 2 = Semi-Prostrate 3 = Erect
2. MATURITY: (50% Flowering)		
No. of Days Later Than	*	***************************************
3. PLANT: (From Soil Level to Top of Head) 3 1 = Semi-Dwarf 2 = Short (California 5 cm Shorter Than	a Mariout) 3 = Medium Tall (Betzes) * * *	4 = Tall (Conquest)
4. STEM:		
Exsertion (Flag to Spike at Maturity): 1 = ((0-3 cm) $2 = (3-10 cm)$ $3 = (10-15 cm)$	
	Present	
0 5 No. of Nodes (Originating from Node Abo	ve Ground)	
4 Collar Shape: 1 = Closed 2 = \	/-Shaped 3 = Open 4 = Modified Closed	d or Open
Shape of Neck: 1 = Straight 2 = 5	Snaky 3 = Other (Specify)	

^{*} A commercial variety grown in the same trial.

5. LEAF: 1 200000270 Basal Leaf Sheath (Seedling): 1 = Glabrous 2 = Pubescent 2 Position of Flag Leaf (At Boot Stage): 1 = Drooping 2 = Upright Waxiness: 1 = Absent (Glossy) 2 = Slightly Waxy 3 = Waxy 1 mm Width (First Leaf Below Flag Leaf) cm Length (First Leaf Below Flag Leaf) Anthocyanin in Leaf Sheath: 1 = Absent 2 = Present 6. HEAD: 1 Type: 1 = Two-Rowed 2 = Six-Rowed 4 = Other (Specity) Mid-dense Density: 1 = Lax2 = Erect (Not Dense) 3 = Erect (Dense) 4 = Other (Specify) Parallel Shape: 1 = Tapering 2 Strap 3 = Clavate Waxiness 1 = Absent (Glossy) 2 = Slightly Waxy 3 = WaxyLateral Kernels Overlap: 1 = None 2 = At Tip 3 = 1/4 - 1/2 of Head Rachis (Hair on Edge); 1 = Lacking 2 = Few 3 = Covered 7. GLUME: 2 Length: 1 = 1/3 of Lemma 2 = 1/2 of Lemma 3 = More than 1/2 of Lemma 2 = Short Hairs: 1 = None 3 = LongHair Covering: 1 = None 2 = Restricted to Middle 3 = Confined to Band 4 = Completely Covered 1 = Less than Equal to Length of Glumes 2 = Equal to Length of Glumes 3 = More than Equal to Length of Glumes Awn Surface: 1 = Smooth 2 = Semi-Smooth 3 = Rough 8. LEMMA: Awn: 1 = Awnless 5 2 = Awnlets on Central Rows, Awnless on Lateral Rows 3 = Short on Central Rows, Awnlets on Lateral Rows 4 = Short (Less than Equal to Length of Spike) 5 = Long (Longer than Spike) 6 = Hooded Awn Surface: 1 = Awnless 2 = Smooth 3 = Semi-Smooth 4 = Rough Teeth: 1 = Absent 2 = Few 3 = Numerous Hair: 1 = Absent 2 = Present Shape of Base: 1 = Depression 2 = Slight Crease 3 = Transverse Crease Raachilla Hairs: 1 = Short 2 = Long9. STIGMA:

1 = Few

2 = Many

2

Hairs:

10. SEED:							· ·
2	Type: 1 = N	aked	2 = Covered			200	500270
	Hairs on Ventral Fur	ow:	1 = Absent	2 = Present			
4	2 = S 3 = N 4 = N	id-Long (8.5	ong (7.5 – 9.0 mm) – 9.5 mm) ong (9.0 – 10.5 mm)				
2	Wrinkling of Hull:	1 = Nak	,	rinkled 3	= Semi-Wrinkle	d 4 = Wrinkled	
1	Aleurone Color:		orless (White or Yellov		= Blue	y 4 – Willineu	
0 0	Percent Abortive				MS. per 1000 Se	eeds	
11. DISEASE	≣: (0 = Not Tested, 1 =	Susceptible,	2 = Resistant, 3 = Inte	ermediate, 4	- Tolerant)		
1 5	Septoria 3	Net Blot	ch 1	Spot Blotch	2	Powdery Mildew	
1	.oose Smut	Bacteria	al Blight 2	Covered Sm	nut 2	False Loose Smut	
2 8	Stem Rust MCC 3	Leaf Ru	st 3	Scab	3	Scald	
0 A	Aster Yellows Virus 0	BSMV 0 BYDV 1 Other (Specify) Barley strip rust					
12. INSECT:	(0 = Not Tested, 1 = S	usceptible, 2	2 = Resistant, 3 = Inter	rmediate, 4 -	Tolerant)		
	Green Bug 0		Grain Aphid 0	Chinch Bug		Armyworm	
	Grasshoppers 0			Other (Spec	ify)	•	•
Hessian	Fly Races 🗧 📙	GP D	0 A 0 E		В	0 C 0 C	Other Specify)
13. CHEMICA	AL: (0 = Not Tested, 1	= Susceptibl	e, 2 = Resistant, 3 = I	ntermediate,	4 = Tolerant)		
0 0	ĐT		0 Other (Sp	ecify)			
14. INDICATE	WHICH VAREITY MO	ST CLOSE	LY RESEMBLES THA	AT SUBMITT	ED:		
	CHARACTER		NAME OF VARIE	TY	С	HARACTER	NAME OF VARIETY
Plant Tillering)	ME	RIT		Seed Size		MERIT
Leaf Size		ME	RIT		Coleoptile Elo	ngation	MERIT
Leaf Color		ME	RIT		Seedling Pigm	entation	MERIT
Leaf Carriage)	ME	RIT				

REFERENCES:

The following publications may be used as a reference aid for the standardization of character descriptions and terms used in this form:

- 1. Wiebe, G.A., and D.A. Reid, 1961, Classifications of Barley Varieties Grown in the United States and Canada in 1958, Technical Bulletin No. 1224, U.S. Department of Agriculture.
- Reid, D.A., and G.A. Wiebe, 1968, Barley: Origin, Botany, Culture, Winter Hardiness, Genetics, Utilization, Pests, Agriculture Handbook No. 338, U.S. Department of Agriculture, pp. 61-84.
- Malting Barley Improvement Association, Milwaukee, Wisconsin, 1971, Barley Variety Dictionary.

COLOR: Nickerson's or any recognized color fan may be used to determine color of the described variety.

BOTANICAL DESCRIPTION OF 2899-2316 Mert 16

6/13/07

2B99-2316 is a two-rowed, medium, early season spring barley bred and developed by Busch Agricultural Resources, Incorporated, Ft. Collins, Colorado. It has excellent malting quality.

Juvenile growth habit is erect. Plant color at boot is green with an upright flag leaf. Head shape is parallel and mid-dense in density with a slightly nodding head type. Neck is straight with a bowl shaped collar. First rachis segment is slightly bent back and is mid-sized. Base of the first segment is a margin flange with hairs on the margin. Rachis shape is plain with hairs covering the margin edge. Glume length is one half the length of the kernel and glume hair is long and confined to a band. The glume awns are rough and equal to the length of the glume. Lemma awns are rough, longer than the spike and persistent. Lemma teeth are few. Lemma hair is absent and the base is a depression. Lateral floret formation is divergent with rounded lemma tips. Seed is covered, mid-long to long, finely wrinkled with a slight wax present. The aleurone is colorless. Palea tips are mid-sized. Rachilla length is one-fourth the length of the kernel with long hairs that get shorter at the tip. Ventral crease is open and lacks crease hairs and fence hairs.

2B99-2316 is an intermountain two-rowed variety well adapted to Montana, Idaho and Wyoming.

AGRONOMIC CHARACTERISTICS:

Yield Trials (1999-2005)*

	Grain	Days to	Relative	Plant		Net	
Variety	Yield	Heading	Maturity	Height	Lodging	Blotch	Scald
-	(Bu/ac)	(Julian days)	(1-9) §	(cm)	(1-9)†	(1-9)‡	(1-9) ‡
Station years	49	50	14	57	33	17	20
2B99-2316	115.9	174.7	4.1	83.3	3.4	4.5	3.9
Merit	116.1	176.7	5.9	88.3	2.7	1.9	5.0
t-Test	0.91876(ns)	<.0001	<.0001	<.0001	0.05887	0.000488	0.00494

[§] Relative Maturity 1 = early and 9 = late

MALTING QUALITY CHARACTERISTICS:

				Quality T	Tests (1999-	-2005)*				
÷ .	Barley	Malt	Plump	Fine	Wort		F-C	В	Diasatic.	Alpha-
•	Protein	Protein	Kernels	Extract	Protein	S/T	Diff.	Glucan	Power	Amylase
Entry	(%)	(%)	(%)	(%)	(%)	(%)	(%)	ppm	(°L)	(20° DU)
Station years	34	34	56	29	31	31	16	29	31	31
2B99-2316	11.6	11.5	84.2	81.8	5.2	46.2	1.2	149.0	145.9	68.7
Merit	11.7	11.6	83.8	81.1	5.3	46.7	1.0	160.9	150.6	71.7
t-Test	0.4035 (ns)	0.7477 (ns)	0.6954 (ns)	<.0001	0.2673 (ns)	0.5189 (ns)	0.0381	0.2886 (ns)	0.1432 (ns)	0.0083

[†] Lodging of 1 = no lodging and <math>9 = severe lodging.

[‡] Foliar Diseases 1= no disease and 9 = severe disease.

REPRODUCE LOCALLY. Include form number and edition date on a	Il reproductions.	FORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E	Application is required in order to de certificate is to be issued (7 U.S.C. confidential until the certificate is issued.	2421). The information is held
STATEMENT OF THE BASIS OF OWNERSHIP 1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	1.2 MADIETY NAME
••	OR EXPERIMENTAL NUMBER	3. VARIETY NAME
BUSCH AGRICULTURAL RESOURCES, INC.	2899-2316	'Merit 16 man
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code) 6/13
3515 Richards Lake Road	(970) 221-5622	(970) 472-2334
Fort Collins, Colorado, 80524 USA	7. PVPO NUMBER	(373) 112 2331
		1600270
3. Does the applicant own all rights to the variety? Mark an "X" in the		
		ain. X YES NO
. Is the applicant (individual or company) a U.S. national or a U.S. I	based company? If no, give name of	country. X YES NO
0. Is the applicant the original owner? X YES	NO If no, please answer one	of the following:
H rangil		
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation NO If no, give name of cour	
Land .	<u>[6,3]</u>	
b. If the original rights to variety were owned by a company(ies)		
YES	NO If no, give name of coun	try
		•
1. Additional explanation on ownership (Trace ownership from origi	nal breeder to current owner. Use the	reverse for extra space if needed):
		,
,		
•		
EASE NOTE:		
LEASE NOTE:		
ant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:	
If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals o	erson must be a U.S. national, national f the U.S. for the same genus and spec	of a UPOV member country, or
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a genus and species.	ved the original breeder(s), the compar	ny must be U.S. based, owned by
If the applicant is an owner who is not the original owner, both the	original owner and the applicant must r	neet one of the above criteria.
e original breeder/owner may be the individual or company who di t for definitions.		
cording to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, ntrol number. The valid OMB control number for this information collection is 0581-0055. Iuding the time for reviewing the instructions, searching existing date sources, gathering a	The time required to complete this information colle	ection is estimated to average 0.1 hour per response.

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EXHIBIT E.

STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP

Busch Agricultural Resources, Incorporated is applicant for protection in this case being:

- a.) The incorporated business registered in Delaware for and within regular employees have bred 2B99-2316. 'Merit 16' MAH 6/13/07
- b.) The proprietary owner and intending commercial seller of 2B99-2316.

Form Approved OMB NO 0581-0055

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MID 20705

EXHIBIT F

	DECLARATION REGARDING DEPOSIT			
NAME OF OWNER (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	TEMPORARY OR EXPERIMENTAL DESIGNATION		
Busch Agricultural Resources, Inc.	3515 Richards Lake Road	2B99-2316		
	Fort Collins, Colorado 80524 USA	VARIETY NAME 'Mert 16' MAH		
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY 6/13/07.		
Dr. Blake Cooper or Gary Bovard	3515 Richards Lake Road Fort Collins, Colorado 80524 USA	PVPO NUMBER 200600270		

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Signature

8/17/04